

Analysis of "table1 (slmb primer cyt L)" a 20-mer DNA Oligonucleotide (Sense)

5' CAA CCT CAT CTC TCG TAA AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6101.0	Delta G	25.0 degrees C
Tm thermodynamic	56.4 degrees C	Probe concentration	0.6 μMol
Filter Tm	48.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.2 degrees C	Formamide concentration	0.0 %
AT+GC Tm	58.0 degrees C	3' End length	7 bases
Absorbance	5.3 nMol/A260	Run length	4 bases
Absorbance	32.5 ug/A260	Palindrome length	8 bases
Percent GC	45.0 %	Hairpin loop stem length	3 bases
Delta G	-28.7 kcal/Mol		
Delta H	-140.6 kcal/Mol		
Delta S	-368.0 eu		
3' End Delta G	-5.9 kcal/Mol		

Structural Analysis Summary

Number of base runs	/ Palindromes	0 / 0
Number of hairpin loops		0
Number of dimers	/ 2-oligo dimers	0 / 0
Number of bulge loops	/ 2-oligo bulges	0 / 0
Number of internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 2 (slmb primer cyt H)" a 20-mer DNA Oligonucleotide (Antisense)

5' GCT CGG GCT GCT GGA ATC TT 3'

Oligonucleotide Analysis		Analysis Parameters		
Molecular weight	6220.1	Delta G	Temperature	25.0 degrees C
Tm thermodynamic	70.8 degrees C	Probe concentration	0.6 PMol	
Filter Tm	63.2 degrees C	Salt concentration	1000.0 mMol	
% GC Tm	72.3 degrees C	Formamide concentration	0.0 %	
AT+GC Tm	64.0 degrees C	3', End length	7 bases	
Absorbance	5.6 nMol/A260	Run length	4 bases	
Absorbance	34.8 ug/A260	Palindrome length	8 bases	
Percent GC	60.0 %	Hairpin loop stem length	3 bases	
Delta G	-37.5 kCal/Mol			
Delta H	-164.6 kCal/Mol			
Delta S	-419.9 eu			
3', End Delta G	-5.1 kCal/Mol			

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide (Sense)

5' ACT TGA CTG ACC TTC TTA CT 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6098.0	Delta G	25.0 degrees C
Tm thermodynamic	51.3 degrees C	Probe concentration	0.6 pmol
Filter Tm	43.7 degrees C	Salt concentration	1000.0 mMol
% GC Tm	64.2 degrees C	Formamide concentration	0.0 g
AT+GC Tm	56.0 degrees C	3' End length	7 bases
Absorbance	5.6 nmol/A260	Run length	4 bases
Absorbance	34.0 ug/A260	Palindrome length	8 bases
Percent GC	40.0 %	Hairpin loop stem length	3 bases
Delta G	-26.5 kcal/mol		
Delta H	-137.7 kcal/mol		
Delta S	-365.8 eu		
3' End Delta G	-3.9 kcal/mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/		0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 4 (slmb primer ITS2-H)" a 24-mer DNA Oligonucleotide (Antisense)

5' ATA CTC TGC TGC GGA CAT ACT TGA CTC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	7407.9	Delta G Temperature	25.0 degrees C
Tm thermodynamic	65.4 degrees	Probe concentration	0.6 pmol
Filter Tm	57.8 degrees	C Salt concentration	1000.0 mMol
% GC Tm	72.2 degrees	C Formamide concentration	0.0 %
AT+GC Tm	70.0 degrees	C End length	7 bases
Absorbance	4.4 nmol/A260	Run length	4 bases
Absorbance	32.4 ug/A260	Palindrome length	8 bases
Percent GC	45.8 %	Hairpin loop stem length	3 bases
Delta G	-35.5 kcal/mol		
Delta H	-169.5 kcal/mol		
Delta S	-442.0 eu		
3' End Delta G	-5.2 kcal/mol		

Structural Analysis Summary

Number of base runs / Palindromes	0 / 0
Number of hairpin loops	0
Number of dimers	0 / 0
Number of bulge loops	/ 2-oligo bulges
Number of internal loops	/ 2-oligo internals
Number of	0 / 0

Analysis of "table 5 (slmb primer pro-L) " a 24-mer DNA Oligonucleotide(Sense)

5' CAG TCT CGT CAA ACC AAC TCA AAC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	7354.9	Delta G Temperature	25.0 degrees C
Tm thermodynamic	67.8 degrees C	Probe concentration	0.6 pMol
Filter Tm	60.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	72.2 degrees C	Formamide concentration	0.0 %
AT+GC Tm	70.0 degrees C	3' End length	7 bases
Absorbance	4.3 nMol/A260	Run length	4 bases
Absorbance	31.4 ug/A260	Palindrome length	8 bases
Percent GC	45.8 %	Hairpin loop stem length	3 bases
Delta G	-36.5 kCal/Mol		
Delta H	-169.9 kCal/Mol		
Delta S	-439.7 eu		
3' End Delta G	-4.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	dimers	0 / 0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 6 (slmb primer Dloop-H)" a 23-mer DNA Oligonucleotide (Antisense)

5' ATA ATC ATC CAG CAT CAT AAA CAC AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	7033.7	Delta G	25.0 degrees C
Tm thermodynamic	61.2 degrees	Temperature	25.0 degrees C
Filter Tm	53.6 degrees	Probe concentration	0.6 pMol
% GC Tm	66.4 degrees	Salt concentration	1000.0 mMol
AT+GC Tm	62.0 degrees	Formamide concentration	0.0 %
Absorbance	4.3 nmol/A260	C 3' End length	7 bases
Absorbance	30.0 ug/A260	Run length	4 bases
Percent GC	34.8 %	Palindrome length	8 bases
Delta G	-32.9 kCal/Mol	Hairpin loop stem length	3 bases
Delta H	-163.3 kCal/Mol		
Delta S	-429.7 eu		
3' End Delta G	-4.6 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 7 (slmb primer ROD-L)" a 20-mer DNA Oligonucleotide (Sense)

5' CCT GGT AGA GTT CGC CGT CA 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6189.0	Delta G	25.0 degrees C
Tm thermodynamic	67.4 degrees C	Probe concentration	0.6 pmol
Filter Tm	59.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	72.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3'-End length	7 bases
Absorbance	5.3 nmol/A260	Run length	4 bases
Absorbance	33.0 ug/A260	Palindrome length	8 bases
Percent GC	60.0 %	Hairpin loop stem length	3 bases
Delta G	-34.7 kCal/Mol		
Delta H	-154.3 kCal/Mol		
Delta S	-394.4 eu		
3'-End Delta G	-9.6 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Number of palindromes
Number of hairpin loops	/	0 / 0
Number of dimers	/	0
Number of bulge loops	/	0 / 0
Number of internal loops	/	0 / 0
Number of 2-oligo internals	/	0 / 0

Analysis of "table 8 (slmb primer ROD-H)" a 22-mer DNA Oligonucleotide(Antisense)

5' CGT GTT CCT TAT CAT TGT GCC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6738.4	Delta G	25.0 degrees C
Tm thermodynamic	66.4 degrees C	Temperature	0.6 pmol
Filter Tm	58.8 degrees C	Probe concentration	1000.0 nmol
% GC Tm	69.5 degrees C	Salt concentration	0.0 %
AT+GC Tm	64.0 degrees C	Formamide concentration	7 bases
Absorbance	5.2 nmol/A260	3' End length	4 bases
Absorbance	34.9 ug/A260	Run length	8 bases
Percent GC	45.5 %	Palindrome length	3 bases
Delta G	-35.4 kcal/Mol	Hairpin loop stem length	
Delta H	-165.8 kcal/Mol		
Delta S	-427.3 eu		
3' End Delta G	-7.9 kcal/Mol		

Structural Analysis Summary

Structural Analysis Summary	
Number of base runs	/ palindromes
Number of hairpin loops	0 / 0
Number of dimers	0 / 0
Number of bulge loops	0 / 0
Number of internal loops	0 / 0
Number of 2-oligo internals	0 / 0

Analysis of "table 9 (LRMB primer 16S-L)" a 21-mer DNA Oligonucleotide (Sense)

5' CAC CAG CCA AGT ATG TTT CTC 3'

Oligonucleotide Analysis

	6421.2	25.0 degrees C
Molecular weight	61.5 degrees C	0.6 PMol
Tm thermodynamic	53.9 degrees C	1000.0 mMol
Filter Tm	68.9 degrees C	0.0 %
% GC Tm	62.0 degrees C	7 bases
AT+GC Tm	5.1 nMol/A260	4 bases
Absorbance	Run length	8 bases
Absorbance	33.0 ug/A260	3 bases
Percent GC	47.6 %	Hairpin loop length
Delta G	-31.9 kcal/Mol	
Delta H	-152.3 kcal/Mol	
Delta S	-396.4 eu	
3' End Delta G	-4.9 kCal/Mol	

Analysis Parameters

	Delta G Temperature	25.0 degrees C
Probe concentration	0.6 PMol	
Salt concentration	1000.0 mMol	
Formamide concentration	0.0 %	
3' End length	7 bases	
Run length	4 bases	
nMol/A260	8 bases	
ug/A260	3 bases	
kcal/Mol		
eu		
kCal/Mol		

Structural Analysis Summary

Number of base runs	/ palindromes	0 / 0
Number of hairpin loops		0
Number of dimers	/ 2-oligo dimers	0 / 0
Number of bulge loops	/ 2-oligo bulges	0 / 0
Number of internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 10 (LRMB primer 16S-H)" a 18-mer DNA Oligonucleotide (Antisense)

5' TCG TAG TTC AGC ACT CAG 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5594.7	Delta G	25.0 degrees C
Tm thermodynamic	51.2 degrees C	Probe concentration	0.6 PMol
Filter Tm	43.6 degrees C	Salt concentration	1000.0 mMol
% GC Tm	64.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	54.0 degrees C	3' End length	7 bases
Absorbance	5.7 nMol/A260	Run length	4 bases
Absorbance	31.8 ug/A260	Palindrome length	8 bases
Percent GC	50.0 %	Hairpin loop stem length	3 bases
Delta G	-25.3 kCal/Mol		
Delta H	-123.0 kCal/Mol		
Delta S	-320.5 eu		
3' End Delta G	-4.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Palindromes	0 / 0
Number of hairpin loops	/		0 / 0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 11 (LRMB primer 12S-I)" a 19-mer DNA Oligonucleotide (Sense)

5' CTA TTC GCC TCG CTC AGA C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5779.8	Delta G	25.0 degrees C
Tm thermodynamic	62.1 degrees C	Temperature	0.6 pMol
filter Tm	54.5 degrees C	Probe concentration	1000.0 mMol
% GC Tm	69.7 degrees C	Salt concentration	0.0 %
AT+GC Tm	60.0 degrees C	Formamide concentration	7 bases
Absorbance	6.0 nmol/A260	3' End length	
Absorbance	34.6 ug/A260	Run length	4 bases
Percent GC	57.9 %	Palindrome length	8 bases
Delta G	-31.8 kCal/Mol	Hairpin loop stem length	3 bases
Delta H	-146.6 kCal/Mol		
Delta S	-378.6 eu		
3' End Delta G	-4.6 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 12 (LRMB primer 12S-H)" a 23-mer DNA Oligonucleotide (Antisense)

5' GCC TCC ATC ATC CCT CAC CTT AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6895.5	Delta G Temperature	25.0 degrees C
Tm thermodynamic	70.8 degrees C	Probe concentration	0.6 pmol
Filter Tm	63.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	75.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	72.0 degrees C	3' End length	7 bases
Absorbance	5.1 nmol/A260	Run length	4 bases
Absorbance	34.9 ug/A260	Palindrome length	8 bases
Percent GC	56.5 %	Hairpin loop stem length	3 bases
Delta G	-38.9 kCal/Mol		
Delta H	-174.6 kCal/Mol		
Delta S	-448.9 eu		
3' End Delta G	-5.1 kCal/Mol		

Structural Analysis Summary

Structural Analysis Summary	
Number of base runs	/ palindromes
Number of hairpin loops	0 / 0
Number of dimers	0 / 0
Number of bulge loops	0 / 0
Number of internal loops	0 / 0

Analysis of "table 13 (DTM_B primer 16S-H)" a 20-mer DNA Oligonucleotide(Antisense)

5' CTC CGT CCG TCT CGC CTC TG 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6052.0	Delta G Temperature	25.0 degrees C
Tm thermodynamic	71.7 degrees C	Probe concentration	0.6 pMol
Filter Tm	64.1 degrees C	Salt concentration	1000.0 mMol
% GC Tm	76.4 degrees C	Formamide concentration	0.0 %
AT+GC Tm	68.0 degrees C	3' End length	7 bases
Absorbance	6.1 nMol/A260	Run length	4 bases
Absorbance	37.2 ug/A260	Palindrome length	8 bases
Percent GC	70.0 %	Hairpin loop stem length	3 bases
Delta G	-37.1 kCal/Mol		
Delta H	-157.8 kCal/Mol		
Delta S	-398.9 eu		
3' End Delta G	-7.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/	2-oligo	

Analysis of "table 14 (DMB primer 16S-L)" a 22-mer DNA Oligonucleotide (Sense)

5' AAA TCC GCC CTT ATG TGT GTT C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6756.4	Delta G Temperature	25.0 degrees C
Tm thermodynamic	67.9 degrees C	Probe concentration	0.6 pmol
Filter Tm	60.3 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3' End length	7 bases
Absorbance	4.9 nmol/A260	Run length	4 bases
Absorbance	33.3 ug/A260	Palindrome length	8 bases
Percent GC	45.5 %	Hairpin loop stem length	3 bases
Delta G	-36.9 kcal/Mol		
Delta H	-171.5 kcal/Mol		
Delta S	-444.2 eu		
3' End Delta G	-4.9 kcal/Mol		

Structural Analysis Summary

Number of base runs	/	Palindromes	0 / 0
Number of hairpin loops	/		0 / 0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 15 (DMB primer 12S-H)" a 22-mer DNA Oligonucleotide (Antisense)

5' CAT CCG CTT GCT CTA TTC CTT G 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6723.4	Delta G Temperature	25.0 degrees C
Tm thermodynamic	68.8 degrees	c Probe concentration	0.6 PMOL
Filter Tm	61.2 degrees	c Salt concentration	1000.0 mMOL
% GC Tm	71.3 degrees	c Formamide concentration	0.0 %
AT+GC Tm	66.0 degrees	3' End length	7 bases
Absorbance	5.3 nMol/A260	Run length	4 bases
Absorbance	35.5 ug/A260	Palindrome length	8 bases
Percent GC	50.0 %	Hairpin loop stem length	3 bases
Delta G	-37.5 kcal/Mol		
Delta H	-172.0 kcal/Mol		
Delta S	-444.3 eu		
3' End Delta G	-7.0 kcal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/		0 / 0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 16 (DMB primer 12S-L)" a 19-mer DNA Oligonucleotide (Sense)

5' TCT ATC GGC GGC GTA C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5859.8	Delta G Temperature	25.0 degrees C
Tm thermodynamic	65.8 degrees C	Probe concentration	0.6 pmol
Filter Tm	58.2 degrees C	Salt concentration	1000.0 μmol
% GC Tm	69.7 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3' End length	7 bases
Absorbance	5.7 nmol/A260	Run length	4 bases
Absorbance	33.4 ug/A260	Palindrome length	8 bases
Percent GC	57.9 %	Hairpin loop stem length	3 bases
Delta G	-33.9 kcal/Mol		
Delta H	-152.5 kcal/Mol		
Delta S	-391.2 eu		
3' End Delta G	-3.5 kcal/Mol		

Structural Analysis Summary

Number of base runs	/ palindromes	0 / 0
Number of hairpin loops		0
Number of dimers	/ 2-oligo dimers	0 / 0
Number of bulge loops	/ 2-oligo bulges	0 / 0
Number of internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 17 (TCMB primer 16S-H)" a 21-mer DNA Oligonucleotide(Antisense)

5' GGC GAT TCT ACC GCA CGG GCC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6568.3	Delta G	25.0 degrees C
Tm thermodynamic	80.4 degrees	Temperature	0.6 pMol
Filter Tm	72.8 degrees	Probe concentration	1000.0 nMol
% GC Tm	78.6 degrees	Salt concentration	0.0 %
AT+GC Tm	72.0 degrees	Formamide concentration	
Absorbance	C 3' End length		
Absorbance	5.1 nMol/A260	Run length	7 bases
Absorbance	33.3 ug/A260	Palindrome length	4 bases
Percent GC	71.4 %	Hairpin loop length	8 bases
Delta G	-44.7 kCal/Mol		
Delta H	-186.4 kCal/Mol		
Delta S	-468.6 eu		
3' End Delta G	-12.8 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Number of hairpin loops	/	Number of palindromes
0	/	0	/	0
Number of dimers	/	2-oligo dimers	/	0
Number of bulge loops	/	2-oligo bulges	/	0
Number of internal loops	/	2-oligo internals	/	0

Analysis of "table 18 (TCMB primer 16S-L)" a 22-mer DNA Oligonucleotide(Sense)

5' AAA C_TG GTC CTC AAC TAT GTC A 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6758.5	Delta G	25.0 degrees C
T _m thermodynamic	60.7 degrees	Probe concentration	0.6 pMol
Filter T _m	53.1 degrees	C Salt concentration	1000.0 mMol
% GC T _m	67.6 degrees	C Formamide concentration	0.0 %
AT+GC T _m	62.0 degrees	3: End length	7 bases
Absorbance	4.7 nmol/A260	4: Run length	4 bases
Absorbance	31.7 ug/A260	8: Palindrome length	8 bases
Percent GC	40.9 %	Hairpin loop stem length	3 bases
Delta G	-31.7 kcal/Mol		
Delta H	-153.3 kcal/Mol		
Delta S	-400.5 eu		
3: End Delta G	-4.1 kcal/Mol		

Structural Analysis Summary

Number of base runs	/	Number of palindromes
Number of hairpin loops	/	0 / 0
Number of dimers	/	0 / 0
Number of bulge loops	/	0 / 0
Number of internal loops	/	0 / 0
Number of 2-oligo internals	/	0 / 0

Analysis of "table 19 (TCMB primer 12S-H)" a 22-mer DNA Oligonucleotide (Antisense)

Oligonucleotide Analysis	Analysis Parameters
Molecular weight	6671.4
Tm thermodynamic	74.6 degrees C
Filter Tm	67.0 degrees C
% GC Tm	75.0 degrees C
AT+GC Tm	70.0 degrees C
Absorbance	nMol/A260
Absorbance	ug/A260
Percent GC	%
Delta G	-40.8 kcal/Mol
Delta H	-176.0 kcal/Mol
Delta S	-447.5 eu
3' End Delta G	-7.9 kcal/Mol
Delta G Temperature	25.0 degrees C
Probe concentration	0.6 pMol
Salt concentration	1000.0 mMol
Formamide concentration	0.0 %
3' End length	7 bases
Run length	4 bases
Palindrome length	8 bases
Hairpin loop stem length	3 bases

Structural Analysis Summary

Number of base runs	/	Palindromes
Number of hairpin loops	/	0 / 0
Number of dimers	/	0 / 0
Number of bulge loops	/	0 / 0
Number of internal loops	/	0 / 0
Number of 2-oligo internals	/	0 / 0

Analysis of "table 20 (TCMB primer 12S-L)" a 21-mer DNA Oligonucleotide(Sense)

5' CCT AAA GCC CAG ATA ACT ACA 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6432.3	Delta G	25.0 degrees C
Tm thermodynamic	59.2 degrees C	Temperature	0.6 PMOL
Filter Tm	51.6 degrees C	Probe concentration	1000.0 nMOL
% GC Tm	66.9 degrees C	Salt concentration	0.0 g
AT+GC Tm	60.0 degrees C	Formamide concentration	7 bases
Absorbance	4.8 nMOL/A260	3' End length	4 bases
Absorbance	30.6 ug/A260	Run length	8 bases
Percent GC	42.9 %	Palindrome length	3 bases
Delta G	-31.7 kCal/Mol	Hairpin loop stem length	
Delta H	-159.4 kCal/Mol		
Delta S	-421.0 eu		
3' End Delta G	-3.9 kcal/Mol		

Structural Analysis Summary

Number of base runs	/ Palindromes	0 / 0
Number of hairpin loops	/ 2-oligo dimers	0 / 0
Number of dimers	/ 2-oligo bulges	0 / 0
Number of bulge loops	/ 2-oligo internals	0 / 0
Number of internal loops	/ 2-oligo	

Analysis of "table 21 (PCMB primer 16S-H)" a 22-mer DNA Oligonucleotide (Antisense)

5' CGT GTR CTG ATG ATG ATG TGC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6867.5	Delta G Temperature	25.0 degrees
Tm thermodynamic	64.7 degrees C	Probe concentration	0.6 pMol
Filter Tm	57.1 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3' End length	7 bases
Absorbance	4.9 nmol/A260	Run length	4 bases
Absorbance	33.4 ug/A260	Palindrome length	8 bases
Percent GC	45.5 %	Hairpin loop stem length	3 bases
Delta G	-33.0 kCal/Mol		
Delta H	-150.2 kCal/Mol		
Delta S	-385.9 eu		
3' End Delta G	-6.3 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/		0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 22 (PCMB primer 16S-L)" a 19-mer DNA Oligonucleotide (Sense)

5' ATT CCT TCC TCT TAG TAT G 3'

Oligonucleotide Analysis

	5799.8	49.5 degrees C	Delta G Temperature	25.0 degrees C
Molecular weight	5799.8	49.5 degrees C	Probe concentration	0.6 PMol
Tm thermodynamic		41.9 degrees C	Salt concentration	1000.0 mMol
Filter Tm		61.1 degrees C	Formamide concentration	0.0 %
GC Tm		52.0 degrees C	3' End length	7 bases
AT+GC Tm		5.8 nmol/A260	Run length	4 bases
Absorbance		33.6 ug/A260	Palindrome length	8 bases
Absorbance		36.8 %	Hairpin loop stem length	3 bases
Percent GC		-26.1 kcal/Mol		
Delta G		-138.8 kcal/Mol		
Delta H		-371.5 eu		
Delta S		-3.1 kcal/Mol		
3' End Delta G				

Analysis Parameters

Number of base runs / Palindromes 0 / 0
 Number of hairpin loops 0 / 0
 Number of dimers / 2-oligo dimers 0 / 0
 Number of bulge loops / 2-oligo bulges 0 / 0
 Number of internal loops / 2-oligo internals 0 / 0

Structural Analysis Summary

Number of base runs / Palindromes	0 / 0
Number of hairpin loops	0 / 0
Number of dimers / 2-oligo dimers	0 / 0
Number of bulge loops / 2-oligo bulges	0 / 0
Number of internal loops / 2-oligo internals	0 / 0

Analysis of "table 23 (PCMB primer 12S-H)" a 22-mer DNA Oligonucleotide(Antisense)

5' GCT GAA CTT ACT ACT ATG CCC TAC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6725.4	Delta G Temperature	25.0 degrees C
Tm thermodynamic	60.3 degrees C	Probe concentration	0.6 pMol
Filter Tm	52.7 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3'-End length	7 bases
Absorbance	5.0 nmol/A260	Run length	4 bases
Percent GC	33.6 ug/A260	Palindrome length	8 bases
Delta G	45.5 %	Hairpin loop stem length	3 bases
Delta H	-32.7 kCal/Mol		
Delta S	-164.7 kCal/Mol		
3'-End Delta G	-435.2 eu		
	-6.6 kCal/Mol		

Structural Analysis Summary

Number of base runs	/ palindromes	0 / 0
Number of hairpin loops	/	0
Number of dimers	/ 2-oligo dimers	0 / 0
Number of bulge loops	/ 2-oligo bulges	0 / 0
Number of internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 24 (PCMB primer 12S-I)" a 20-mer DNA Oligonucleotide(Sense)

5' CCG ATT GAC GCC GAA CTA TG 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6182.1	Delta G Temperature	25.0 degrees C
Tm thermodynamic	68.1 degrees	Probe concentration	0.6 pMol
Filter Tm	60.5 degrees	C Salt concentration	1000.0 nMol
% GC Tm	70.3 degrees	C Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees	3' End length	7 bases
Absorbance	5.3 nMol/A260	Run length	4 bases
Absorbance	32.5 ug/A260	Palindrome length	8 bases
Percent GC	55.0 %	Hairpin loop stem length	3 bases
Delta G	-35.6 kCal/Mol		
Delta H	-159.4 kCal/Mol		
Delta S	-408.5 eu		
3' End Delta G	-4.1 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		
Number of			

Analysis of "table 25 (S1MB primer 16S-H)" a 18-mer DNA Oligonucleotide (Antisense)

5' TAC GCA TAA CCG CTC TGG 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5579.7	Delta G Temperature	25.0 degrees C
Tm thermodynamic	61.4 degrees	C Probe concentration	0.6 pMol
Filter Tm	53.8 degrees	C Salt concentration	1000.0 mMol
% GC Tm	66.8 degrees	C Formamide concentration	0.0 %
AT+GC Tm	56.0 degrees	C 3' End length	7 bases
Absorbance	5.9 nMol/A260	Run length	4 bases
Absorbance	32.8 ug/A260	Palindrome length	8 bases
Percent GC	55.6 %	Hairpin loop stem length	3 bases
Delta G	-31.0 kCal/Mol		
Delta H	-143.5 kCal/Mol		
Delta S	-370.2 eu		
3' End Delta G	-7.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 26 (SLMB primer 16S-L)" a 22-mer DNA Oligonucleotide(sense)

5' CTA CTC AAC TAC ATC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6638.4	Delta G	25.0 degrees C
Tm thermodynamic	52.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	44.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	67.6 degrees C	Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees C	7 bases	
Absorbance	4.9 nmol/A260	3- End length	4 bases
Absorbance	32.8 ug/A260	Run length	8 bases
Percent GC	40.9 %	Palindrome length	3 bases
Delta G	-27.6 kCal/Mol	Hairpin loop stem length	
Delta H	-146.8 kCal/Mol		
Delta S	-392.2 eu		
3' End Delta G	-3.8 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Palindromes	0 / 0
Number of hairpin loops	/		0 / 0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 27 (SIMB primer 12S-H)" a 19-mer DNA Oligonucleotide(Antisense)

5' CCC ACT CAC TGC TAA CTC C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5708.8	Delta G Temperature	25.0 degrees C
Tm thermodynamic	58.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	50.8 degrees C	Salt concentration	1000.0 nMol
% GC Tm	69.7 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3' End length	7 bases
Absorbance	6.1 nmol/A260	Run length	4 bases
Absorbance	35.0 ug/A260	Palindrome length	8 bases
Percent GC	57.9 %	Hairpin loop stem length	3 bases
Delta G	-29.4 kCal/Mol		
Delta H	-138.5 kCal/Mol		
Delta S	-359.0 eu		
3' End Delta G	-5.4 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Number of palindromes
Number of hairpin loops	/	0 / 0
Number of dimers	/	0 / 0
Number of bulge loops	/	0 / 0
Number of internal loops	/	0 / 0

Analysis of "table 28 (SIMB primer 12S-L)" a 21-mer DNA Oligonucleotide (Sense)

5' GGC TAA CTA CAA TCA TCT GCT 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6445.2	Delta G Temperature	25.0 degrees C
Tm thermodynamic	58.5 degrees C	Probe concentration	0.6 pMol
Filter Tm	50.9 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.9 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3'-End length	7 bases
Absorbance	5.1 nmol/A260	Run length	4 bases
Absorbance	32.6 ug/A260	Palindrome length	8 bases
Percent GC	42.9 %	Hairpin loop stem length	3 bases
Delta G	-30.8 kCal/Mol		
Delta H	-153.4 kCal/Mol		
Delta S	-403.9 eu		
3' End Delta G	-6.3 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	Palindromes	0 / 0
Number of hairpin loops			0
Number of dimers		/ 2-oligo dimers	0 / 0
Number of bulge loops		/ 2-oligo bulges	0 / 0
Number of internal loops		/ 2-oligo internals	0 / 0